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t-u5-05 • 3/21/12

UST Cathodic Protection System Evaluation Galvanic (Sacrificial Anode) Type

520 Lafayette Road North St. Paul, MN 55155-4194

Underground Storage Tanks (UST) Program

	1	1.5	Doc Type: Compliance Certification
	6 maria	th tolow-up	12 a C P T - 9 /11 - 40-41
wave forto 651-2	in 30 days, send complete 97-2343, or e-mail <u>joann.</u> b	d form to Joann Henry, Mi <u>enry@state.mn.us</u> .	nnesota Politica Control Agency (Mexica)
			fail, or inconclusive)
<ul> <li>All report</li> <li>Incomple</li> </ul>	s must be submitted regi te, unsigned, or illegible	totus Mill not be accebe	OCC SITTION TO THE PARTY OF THE
# *157	1/673	2. UST	owner/operator
		Name:	
		ADDIESS	The state of the s
		.a. 62340 F.HV	The state of the s
Contact name (if diffe	rent than above): Paul Meleer	The company of the co	Contact phone: 320-237-0097
<ol><li>Cathodic Pro</li></ol>	tection (CP) tester info	Ormation and quantico	name: Advanced Corrosion Control Technologies, Inc.
Tester name (print):	Mike Reneau	Company	City: Kenosha
Address: <u>2519 47</u>	th Court	Di 262 552 0447	Allow Committee
State: WI	Zip code: <u>53144</u>	Phone: 262-652-0417	, metallications originals
National Association	of Corrosion sternational certification#:	22874	Steel Tank Institute (STI) certification #:
4. Reason surv	vey was conducted (ch	eck only one)	57.0- within 6 months of rangislmortification
	E fraction within 6 mit	onthe of inetall   30-day re-s	urvey after fail Re-survey within 6 months of repair/modification
Date next CP su	irvey must be conducted by (n	nm/dd/yyyy): 4/1/2013	(Required within 6 months of install or repair, and every 3 years thereafter.)
	evaluation (check only o	section of the CD curvey and the	ne continuity survey indicates all protected structures are isolated. It is
N. A	rotected structures at the law		
judg <b>☐ Fail</b> One	ed that adequate CP has been or more protected structures	at this facility fail the CP surv	ey, and it is judged that adequate CP has not been provided to the UST
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Page 1 of 5

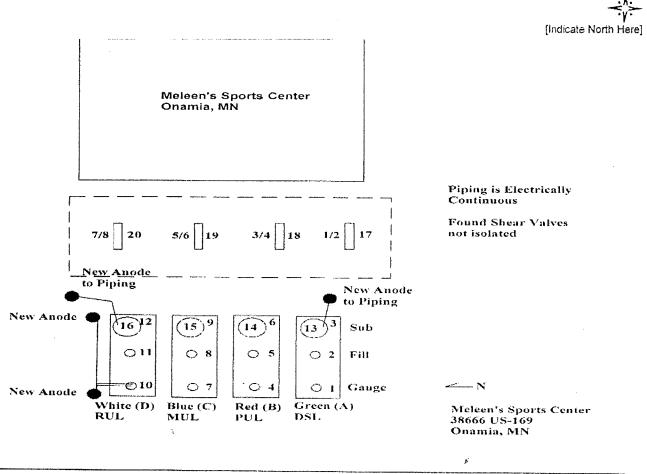
11. Description of UST system

Tank/ Pipe#	Product	Capacity (Gallons)	Tank type <sup>1</sup>	Piping type <sup>2</sup>	Metal Segments at Tank sump 3	Metal Segments at Dispenser <sup>3</sup>
1	RUL Gasoline	12,000	SW Sti-P3	Steel w/CP		
2	MUL Gasoline	12,000	SW Sti-P3	Steel w/CP		
3	PUL Gasoline	12,000	SW Sti-P3	Steel w/CP		
4	DSL Diesel	12,000	SW Sti-P3	Steel w/CP		1
5						
6						
Ex:	Premium	10,000	SW sti-P3®,	DW Fiberglass	CP w/ anodes	In Containment

- Indicate if tank is Double Wall (DW) or Single Wall (SW). Also indicated type (e.g., steel, fiberglass, sti-P<sub>3</sub><sup>5</sup>, composite etc.). Also indicate if tank is compartmental if applicable
- 2. Indicate if piping is Double Wall (DW) or Single Wall (SW). Also indicate type (e.g., coated steel, fiberglass, galvanized, flex, etc.).
- Indicate how metal segments such as flex connectors or metal pipe segments are protected from corrosion (e.g., isolated, booted, bonded, CP w/anodes, in containment, etc.)

## 12. UST facility site drawing

Attach detailed drawing or use the space provided to draw a sketch of the UST and CP systems. At a minimum you should indicate the following: All tanks, piping and dispensers; Location of anodes if known; All buildings and streets; Location of CP test stations; Each reference cell placement (local and remote) must be indicated by a code (e.g., 1,2, T-1,) corresponding with the appropriate test in Section 10 of this form. If supplemental anodes are added to the tank system, indicate number, size, location and depth of the new anodes. An evaluation of the CP system is not complete without an acceptable site drawing.



Highway 169

Facility name: Meleen's Sports Center BP Date of test (mm/dd/yyyy): 10/4/2012

(Note: The facility name and date of test will automatically populate from page one, if filled out electronically.)

	Structure to soil potentials (mV)			Continuity testing (mV)					
	Half cell site map code	Half cell placement description	"ON" Voltage	Structure to		Point-to- point voltage	Fixed cell remote voltage	Isolated/ Continuous/ Inconclusive	
Product	17	Product Piping at Disp 1/2	-1110					Isolated	
	18	Product Piping at Disp 3/4	-1125					Isolated	
Pro	19	Product Piping at Disp 5/6	-1059						
5	20	Product Piping at Disp 7/8	-1100	***************************************				Isolated	
nctu NG	Structure contact point(s): Product Piping			e e e e e e e e e e e e e e e e e e e	1-11/ )-11/11/11/11/11		Isolated		
Structure: Piping		tructure Results (Structure to soil poter		☑ Pass	☐ Fail	<u> </u>	<u> </u>		
	Overan		miais and continuity).	N rass		☐ Inconclu	ISIVE		
Structure:		contact point(s):							
	Overali	Structure Results (Structure to soll pote	entials and continuity):	☐ Pass	☐ Fail	☐ Inconc	usive		
Structure:		contact point(s): Structure Results (Structure to soil pote	entials and continuity):	Pass	☐ Fail	☐ Inconc	usive		
Structure:		contact point(s): Structure Results (Structure to soil pote	entials and continuity):	☐ Pass	☐ Fail	☐ Inconcl	usive		
I									
Ш				- in the state of					
ë		OPW-Samuel additional							
Structure:	Structure	contact point(s):							
Str		Structure Results (Structure to soil pote	entials and continuity):	☐ Pass	☐ Fail	☐ Inconcl	usive	A. MANAGEMENT .	
Comr	ments/Rem								
		If separate corrosion protection is requ	ired on flex connectors	treat each flav	se if it was	an individual	atal air -		
			ch additional she			ar majvioual Mi	ская ріре,		
	pca.state.r 95 • 3/21/		-657-3864 • TTY	651-282-5332 c	or 800-657-38	364 • Avail	able in alterr	native formats	

Fac	Facility name: Meleen's Sports Center BP  Date of test (mm/dd/yyyy): 10/4/2012  (Note: The facility name and date of test will automatically populate from page one, if filled out electronically.)							
Doc	eriba sail						- '	<b>M</b> . 1 . 1
	note location	type and location(s) of remote references	erence cell plac	cement(s) (e.g., t	Black Dift, 3	su teet NW	of lank#1 s	pill bucket):
	note location				10 10			
Des	cribe soil t	ype(s) of local reference cell placeme	ents: Sand/G	ravel			· ·	
		Structure to soil potentials (r	n\/\		Contin	uity testin	a (m\/)	
	Half cell site map	Citatian to don potentials (i			Contin	Point-to-	Fixed cell	Isolated/
	code	Half cell placement description	"ON" Voltage	Structure te	sted	point voltage	remote voltage	Continuous/ Inconclusive
Structure : (Example) Tank 1	(Ex)1	Local, soil at ATG manway	-1011 mV	(Ex) ATG Conduit		475 mV		isolated
	(Ex)2	Local, Soil at STP manway	-995 mV	(Ex) STP conduit			-528 mV	isolated
	(Ex)R-1	Remote #1	-1042 mV	(Ex) Vent		421 mV		isolated
truc	Structure	contact point(s): (Ex)Tank Bottom		(Ex) Fill Riser		375 mV	-522 mV	isolated
s 🖭	Overall S	tructure Results (Structure to soll potenti	als and continuity)	🛚 🛭 Pass	☐ Fail	☐ Incond	lusive	
	1	Soil Access Gauge End of Tank (W)	-992		c de colonidation de la constitución de la constitu			Isolated
e e	2	Soil Access in Center of Tank	-981					
	3	Soil Access on Sub End of Tank (E)	-1011					
Structure: Green Tank (DSL)			111111111111111111111111111111111111111					
truct	Structure	contact point(s): Tank Test Lead						
ÿ ⊢	Overall S	tructure Results (Structure to soil potenti	als and continuity):	⊠ Pass	☐ Fail	☐ Inconc	lusive	
뇜	4	Soil Access Gauge End of Tank (W)	-1001					Isolated
Red Tank	5	Soil Access in Center of Tank	-971					
ture:	6	Soil Access on Sub End of Tank (E)	-1053					
						***		
Struci (PUL)	Structure	contact point(s): Tank Test Lead		· · · · · · · · · · · · · · · · · · ·		opedin (spendanisa) primagras.		
জ অ	Overall Structure Results (Structure to soil potentials and continuity			: 🛚 🖾 Pass	☐ Fail	☐ Incond	clusive	·
침	7	Soil Access Gauge End of Tank (W)	-998					Isolated
Blue Tank	8	Soll Access in Center of Tank	-979					
8	9	Soil Access on Sub End of Tank (E)	-1087					
Structure: (MUL)		OHIO CONTRACTOR OF THE CONTRAC						
ם	Structure contact point(s): Tank Test Lead							
ଜ ଞା	Overall St	tructure Results (Structure to soil potentia	als and continuity):	⊠ Pass	☐ Fail	Inconc	lusive	
ž	10	Soil Access Gauge End of Tank (W)	-1341		•			Isolated
White Tank	11	Soil Access in Center of Tank	-1138			The second secon		
Whi	12	Soil Access on Sub End of Tank (E)	-1260	and a second sec		· · · · · · · · · · · · · · · · · · ·		
ıre:		and the second s		,,				
Structure: (RUL)	Structure	contact point(s): Tank Test Lead						
동의	Overali St	ructure Results (Structure to soil potentia	is and continuity):	□ Pass	☐ Fail	☐ Inconc	lucivo	
ابد	13	Piping at Green (DSL) Tank Sub	-1182			· · · · · · · · · · · · · · · · · · ·		Incluind.
Product	14	Piping at Red (PUL) Tank Sub	-1170	andrago have a delay by the second se				Isolated
P	15	Piping at Blue (MUL) Tank Sub	-1089	· · · · · · · · · · · · · · · · · · ·				Isolated
Structure: Piping	16	Piping at White (RUL) Tank Sub	-1149		<i>*</i>			Isolated
ruct	Structure	contact point(s): Product Piping		Andrew States		F		Isolated
22 2		ructure Results (Structure to soil potentia	is and continuity):	⊠ Pass	☐ Fail	☐ Inconci	Insive	
•			,,,,,			miconci	23.10	···

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-ac	ility name: Meleen's (Note: 7	s Sports Center BP The facility name and date of test will automatically	Date of test (mm/dd/yyyy): 10/4/2012 populate from page one, if filled ou: electronically.)					
В.	Action required	as a result of this evaluation (check or	nly one)					
•	⊠ None	CP is adequate. No further action is necessary at	this time. Test again by no later than (see Section 4).					
	Retest	o determine if passing results can be achieved. (Retests may occur only if ected structures).						
	☐ Repair & Retest	sary within the next 60 days, or permanently close the tank system.						
9.	CP system rep	airs and/or modification information						
	Date of "failing" test	: Date of repair:10/4/2012	Repair company: Advanced Corrosion Control Technologies,					
		(mm/dd/yyyy) (mm/dd/yy	уу)					
	Name of lead repair technician:	Mike Reneau	Phone # 262-652-0417					
	Certification of repa	iir technician (check all that apply): 🔲 Steel Tank	Institute 🛛 NACE 🔲 MPCA certified supervisor					
	Note: submit failing	test results with this report if not already submitted	t.					
	Description of	Repairs (check all that apply)						
	-	•	Repairs /modifications for 1 & 2 must be designed by a "corrosion					
<ul> <li>Supplemental anodes for a sti-P<sub>3</sub>® tank.</li> <li>Supplemental anodes for metallic pipe which is factory or with dielectirc material (fusion bonded epoxy or equivilent)</li> </ul>			expert' or installed per industry standards. Attach corrosion experts design, or documentation industry standard was followed. (Section 6 must be signed if designed by a corrosion expert.)					
	☐ 3. Supplemental	l anodes for a non-sti-P <sub>3</sub> ® tank. (e.g., bare steel).	Repairs/modifications for 3 & 4 and must be designed and evaluated					
Supplimental anodes for metalic pipe which is non-factory coate with dielectirc material (e.g., galvanized, copper, bare steel, etc.)			by a corrosion expert only. Attach a corrosion experts design.					
		alvanically protected tanks/piping (explain in *rema	arks/other" below).					
	☐ 6. Isolation of no	ctors) at STP or dispenser sumps (explain in "remarks/other" below).						
			Needed to remove brackets and install isolating material.					
Added two (2) Sacrificial Anodes to Product Piping and two (2) Sacrificial Anodews to White (RUL) UST.								
	Added IND (2) Occ	American Modern Company	and the desired the second transfer of the se					
	- Line of the second							
			and the state of t					
10	Half Cell Placem		al and continuity survey halt, or other paving materials is not acceptable.					
		Soil Potentials:	ee locations per tank, and three locations per piping run.					
	At le leas loca	east one of the reference cell locations must to st one must be placed in soil approximately 25 ation is at the discretion of the tester (either lo	oe in the soil directly over the tested structure (local); and at 5 to 100 feet away from the structure (remote). The third cal or remote)					
	rem	note.	ints are required for each flex connector, one local and one					
	stru	h the local and the remote voltage must meet acture to pass. Inconclusive must be indicated not result in the same outcome (both pass or	one of the three criteria listed in section 7 in order for the when both the local and the remote structure-to-soil potentials both fail).					
	<ul> <li>If th</li> </ul>		criteria is used for galvanic systems, record structure-to-soil					
	Continuity	Testing: (Point-to-Point and/or Fixed Cell-	Moving Ground)					
	beir • Fixe loca	ng examined to demonstrate isolation or conti ed Cell-Moving Ground: When conducting this	e leads of the volt meter are required to contact the two structures inuity. A half cell is not used for this test method, so method, the half cell must be placed in the soil at a remote left undisturbed. The other lead of the meter is moved to					
			npare the difference in voltage of the structures evaluated and					

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structure in order to "pass" the continuity survey.

use the following guidelines: 1 mV or less = continuous, 1-10 mV= inconclusive, greater than 10 mV = isolated. For galvanic systems, the structure that is to be protected must be isolated from all other non-protected metallic

If other approved continuity testing methods are used, alter this form or submit the data on a separate sheet.